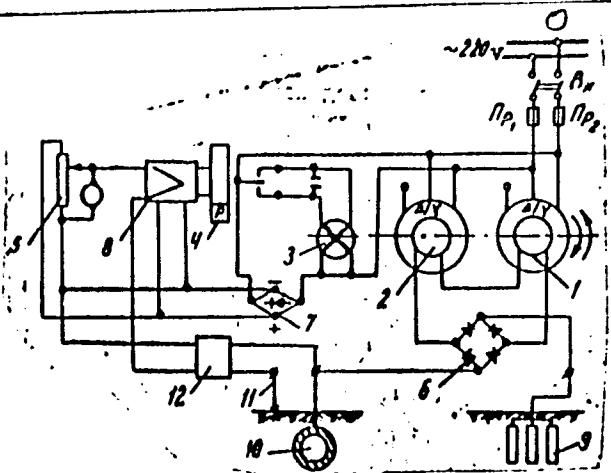


L 08781-67

ACC NR: AP6021377

Fig. 1. Schematic diagram of automatic cathode station with dual-rotary transformers; 1-2 - dual-rotary transformers; 3 - RD-09 reversible motor; 4 - RP-5 polarized relay; 5 - potentiometer for setting protective potential of installation; 6-7 - single-phase rectifier bridge; 8 - dc amplifier; 9 - anode ground; 10 - underground installation; 11 - comparison electrode; 12 - low-pass filter.



smooth, contactless control of the protective potential (see Fig. 2).

Card 2/3

L 08781-67

ACC NR: AP6021377

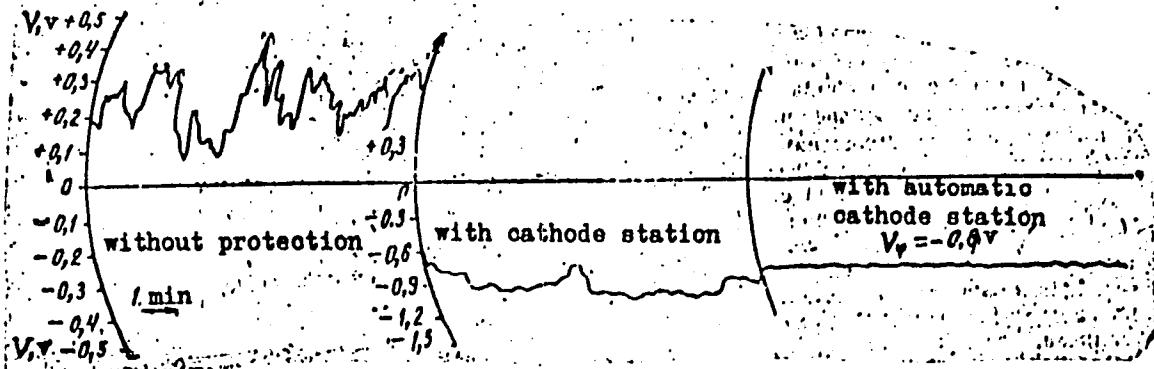


Fig. 2. Stray currents without protection, with ordinary cathode station, and with automatic cathode station

Orig. art. has: 8 formulas, 3 diagrams, and 2 graphs.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 002

Card 3/3 nst

TSERKUN, N.A.; GASAMOV, A.M.

Some problems in the automation control of the level of the protection of underground oil and gas pipelines from corrosion. Tzv. vys. ushet. zav.; neft' i gaz 7 no.12 p.1-100  
'64 (MIRA '68:2)

1. Azertaydzhanskiy Institut nefti i gaza im. M. Azisbekova.

GULIZADE, M.P., prof., doktor tekhn.nauk, otv. red.; TSEKUN, N.A., dots., kand. tekhn. nauk, zam. otv. red.; NEGREYEV, V.F., prof., doktor khim. nauk, red.; SPIRIN, A.A., dots., kand. tekhn. nauk, red.; KLYUCHNIKOVA, L.P., ved. red.; POLOZKOVA, V.V., ved. red.; POLOSINA, A.S., tekhn. red.

[Transactions of the All-Union Interuniversity Scientific Conference on Corrosion Control Problems] Trudy Vsesoiuznoi mezhvuzovskoi nauchnoi konferentsii po voprosam bor'by s koroziei. Moskva, Gostoptekhizdat, 1962. 405 p. (MIRA 16:8)

1. Vsesoyuznaya mezhvuzovskaya nauchnaya konferentsiya po voprosam bor'by s korroziyey. 2. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova (for Spirin, TSekun).  
(Corrosion and anticorrosives)

S/181/60/002/02/12/033  
B006/B067

AUTHORS: Pekar, S. I., Tsekava, B. Ye.

TITLE: Light Dispersion in the Range of Exciton Absorption in Cubic Crystals With Regard to the Anisotropy of the Effective Exciton Mass

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 2, pp. 261-272

TEXT: The present paper is a continuation of previous papers (Refs. 1-3) in which the theory of dispersion and exciton absorption of light was dealt with. The present paper differs from the previous papers in that the anisotropy of the effective exciton mass in the cubic crystals is taken into account. In the present paper, the investigation is made generally without special assumptions on the Hamiltonian of the system and without restriction to a certain exciton model. The properties of the exciton energy bands which are determined from the cubic symmetry of a crystal of class  $O_h$ , are analyzed by group-theoretical methods. Since light interacts only with the excitons whose wave vectors  $k$  coincide with those of light, only the following cases are examined: a)  $k$  parallel

✓B

Card 1/3

Light Dispersion in the Range of Exciton  
Absorption in Cubic Crystals With Regard to the  
Anisotropy of the Effective Exciton Mass

S/181/60/002/02/12/033  
B006/B067

to the edge of the basic cube (direction  $(0,0,1)$ ); b)  $\vec{k}$  is parallel to direction  $(1,1,1)$ ; c)  $\vec{k}$  is parallel to direction  $(1,1,0)$ ; d)  $\vec{k}$  is in the face plane of the basic cube or in the bisectorial planes of an angle formed by the intersection of two faces of the cube (see Tables 1-4). In the following, the paper deals with the selection rules and the polarization in phototransitions of the crystal from the ground state into the exciton state. Furthermore, the dispersion of normal and anomalous light waves is calculated by taking account of the anisotropy of the effective exciton mass, and an expression for the refractive index is given. The results are applied to the theory of electromagnetic waves in media with exciton absorption which was developed in Refs. 1-3. In conclusion, the possibility is discussed of proving birefringence in cubic crystals experimentally. These experiments must be conducted at extremely low temperatures. The authors thank E. I. Rashba for remarks. Ya. I. Frenkel' and K. B. Tolpygo are mentioned. There are 4 figures, 6 tables, and 15 references: 8 Soviet, 4 American, 2 German, 2 British, and 1 Dutch.

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B

Card 2/3

Light Dispersion in the Range of Exciton  
Absorption in Cubic Crystals With Regard to the  
Anisotropy of the Effective Exciton Mass

S/181/60/002/02/12/033

B006/B067

ASSOCIATION: Institut fiziki AN USSR Kiyev (Institute of Physics of the  
AS UkrSSR Kiyev)

SUBMITTED: May 11, 1959

✓B

Card 3/3

S/181/60/002/03/17/028  
B006/B017

AUTHOR: Tsekvava, B. Ye.

TITLE: Generalized Fresnel Formulas for a Crystal Surface Taking  
Into Account the Effective Exciton Mass

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 3, pp. 482-488

TEXT: This paper is a continuation of a previous paper (Ref. 1) in which it was shown that four transverse plane waves of the same frequency and the same propagation direction but with different refractive indices (i.e., with different propagation velocities) may occur in cubic crystals of class  $O_h$ . In the present paper, the author gives a generalization of the Fresnel formulas for optically anisotropic cubic crystals of class  $O_h$ . He studies only the case in which a light wave coming from the vacuum hits the plane crystal surface ( $z = 0$ ) and penetrates into the crystal or is reflected from it. First, the Fresnel formulas are generalized for this interface between crystal and vacuum, and in the case of perpendicular incidence of a wave, formulas are given for the reflection coefficient

Card 1/3

✓C

Generalized Fresnel Formulas for a Crystal  
Surface Taking Into Account the Effective  
Exciton Mass

S/181/60/002/03/17/028  
B006/B017

of the s- and p-components (Formulas 14 and 15). These formulas deviate to a large extent from the corresponding formulas of macroscopic electrodynamics. When the anisotropy of the effective exciton mass is taken into account, the s- and p-components have different reflection coefficients for perpendicular incidence, i.e. the intensity of the reflected light depends on the polarization of the incident light. In the following, the passage of a light wave through a plane-parallel plate ( $z=0$ ,  $z=1$ ) is described. Again, perpendicular incidence is considered, i.e., the incident and all secondary waves are in parallel with the z-axis, and no longitudinal waves are observed. The z-axis is assumed not to coincide with the crystallographical axes of the third and fourth order. In this case eight transverse waves occur in the interior of the crystal, whose electric fields are given by (16). Expressions for the permeability, reflection, and attenuation coefficients of light are deduced. In conclusion, the author discusses experiments which might make it possible to prove the optical anisotropy of cubic crystals (investigation of the elliptical polarization of light passing through a plane-parallel plate;

Card 2/3

✓C

Generalized Fresnel Formulas for a Crystal  
Surface Taking Into Account the Effective  
Exciton Mass

S/181/60/002/03/17/028  
B006/B017

investigation of the dependence of the reflection, transmission, and attenuation coefficients on the polarization of the incident light; investigation of Brewster's law; at a certain angle of incidence, the reflected beam must be rigorously polarized in the direction of the s-component, since the p-component is not reflected at all. Finally, the author thanks Professor S. I. Pekar for his supervision and hints. There are 1 figure, 1 table, and 4 Soviet references.

ASSOCIATION: Institut fiziki AN USSR Kiyev (Physics Institute of the  
AS UkrSSR, Kiyev)

SUBMITTED: June 15, 1959

✓C

Card 3/3

TSEKVAVA, B.Ye.

Light dispersion in the exciton absorption region in cubic crystals.  
Fiz.tver.tela 3 no.4:1164-1175 Ap '61. (MIRA 14:4)

1. Institut fiziki AN USSR, Kiyev.  
(Excitons) (Crystals--Optical properties) (Light-Scattering)

24.3950 (1643, 1137, 1144)

3/181/62/004/002/033/051  
B102/B138

AUTHOR: Tsekvava, B. Ye.

TITLE: Light dispersion in the exciton absorption range in the case of forbidden dipole transitions

PERIODICAL: Fizika tverdogo tela, v. 4, no. 2, 1962, 501-509

TEXT: The macroscopic Maxwell equations are derived from the microscopic Lorentz equations and the results are used to study light absorption and dispersion in the case of forbidden dipole transitions. The selection rules and the polarization are determined for crystal transitions from the ground to exciton states. It is shown that for any small  $|\vec{k}|$ , which remain within the Brillouin zone, if  $\vec{k} \parallel [0,0,1]$ ,  $[1,1,1]$  the E-type exciton waves are of pure transverse polarization and energy-degenerate. In a plane perpendicular to  $\vec{k}$ , they can be arbitrarily polarized. For  $\vec{k} \parallel [1,1,0]$  the states A, B<sub>1</sub>, B<sub>2</sub> (c.f. Table 1) are non-degenerate and their polarizations are determined exactly by the position vectors  $\vec{e}_3$ ,  $\vec{e}_1$  and  $\vec{e}_2$ . If  $\vec{k}$  lies in a symmetry plane, only the A" states are strictly polarized

Card 1/1

3424  
S/181/62/004/002/053/051  
B102/B138

Light dispersion in the exciton ...

transversely to this plane. The A'-type excitons have a polarization vector  $\vec{t}_{m\nu k} = \frac{I_{m\nu}(\vec{k}, 0)}{|I_{m\nu}(\vec{k}, 0)|}$  in the  $\vec{e}_1 \vec{e}_2$  plane, i. e.  $\tau_{m\nu k}$  may have transverse and longitudinal components. The transition characteristics in Table 1 show the polarization and direction of propagation of the incident light for a given type of exciton band symmetry for which the probability of transition from the ground to the exciton state of the crystal is nonvanishing. The matrix elements for allowed dipole transitions are given by

$$\left. \begin{aligned} W'_{m\nu,0}(\vec{k} \rightarrow 0) &= -\frac{V}{c} \mathbf{A}_0 \Pi_{m\nu}^*(\mathbf{s}), \\ W''_{m\nu,0}(-\vec{k} \rightarrow 0) &= -\frac{V}{c} \mathbf{A}_0^* \Pi_{m\nu}^*(-\mathbf{s}), \end{aligned} \right\} \quad (30)$$

$$\Pi_{m\nu}(\vec{k}) = \frac{1}{v} \int \mathbf{j}_{m\nu k}(\mathbf{r}) d\mathbf{r},$$

Carl 2/10/

Light dispersion in the exciton ...

31210  
S/181/62/004/002/033/051  
B102/B138

for the  $F_1^+$ -type bands, for forbidden dipole transitions (band types A, E,  $F_1$ ,  $F_2$ ) by

$$\left. \begin{aligned} W'_{m,0}(\mathbf{k}) &= -\frac{\nu}{\sigma} \mathbf{A}_0(\Pi_m^+(\mathbf{k}) + |\mathbf{k}| \mathbf{Q}_{m,0}^+(\mathbf{s})), \\ W''_{m,0}(-\mathbf{k}) &= -\frac{\nu}{\sigma} \mathbf{A}_0^*(\Pi_m^*(-\mathbf{k}) - |\mathbf{k}| \mathbf{Q}_{m,0}^*(-\mathbf{s})), \end{aligned} \right\} \quad (31)$$

$$\left. \begin{aligned} \mathbf{Q}_{m,0}(\mathbf{k}) &= \frac{1}{\sigma} \int \mathbf{q}_{m,\mathbf{k}}(\mathbf{r}) d\mathbf{r}, \\ \mathbf{q}_{m,\mathbf{k}}(\mathbf{r}) &= -\frac{\hbar}{2} \sum_i \frac{e_i}{m_i} \int [\psi^{0*}(s\mathbf{r}_i) \nabla_i \psi_{m,\mathbf{k}} - \\ &\quad - \psi_{m,\mathbf{k}}(s\mathbf{r}_i) \nabla_i \psi^{0*}] \delta(\mathbf{r} - \mathbf{r}_i) d\Omega. \end{aligned} \right\} \quad (32)$$

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Card 3/10 L

S/181/62/004/002/033/051  
B102/B138

Light dispersion in the exciton ...

and for the band types B, B', E', F<sub>2</sub>' by

$$W_{m,0}''(\mathbf{k}) = -\frac{V}{\sigma} \mathbf{A}_0 \Pi_m''(\mathbf{k}), \quad W_{m,0}''(-\mathbf{k}) = -\frac{V}{\sigma} \mathbf{A}_0^* \Pi_m''(-\mathbf{k}). \quad (33).$$

The refractive indices and the dispersion are determined for plane electromagnetic waves in a crystal for forbidden dipole transitions. For the symmetries A, B, E, F<sub>1</sub>, F<sub>2</sub>, A', B', E', F<sub>2</sub>' the refractive index is given by

$$\begin{aligned} a) \quad n^2 &= \sigma, \\ b) \quad n_{\pm}^2 &= \frac{\sigma + b_0 + \mu_0}{2} \pm \sqrt{\frac{1}{4}(\sigma + b_0 - \mu_0)^2 + b_0 \mu_0}, \\ c) \quad n_{i\pm}^2 &= \frac{\sigma + b_i + \mu_i}{2} \pm \sqrt{\frac{1}{4}(\sigma + b_i - \mu_i)^2 + b_i \mu_i}. \end{aligned}$$

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S/181/62/004/002/033/051

B102/B138

Light dispersion in the exciton ...

Table 2 shows which of the formulas is to be used. For  $\vec{k} \parallel (0,0,1)(1,1,1)$  the electric vector of the light wave has an arbitrary direction in the plane perpendicular to  $\vec{k}$ . If  $\vec{k} \parallel (1,1,0)$ ,  $i=1$  gives the polarization of the electric field in the cube face in which the direction  $(1,1,0)$  lies;  $i=2$  gives the polarization perpendicular to this face.  $\beta = 1 + 4\pi\beta'$ ,  $\beta'$  stands for all components of

$$\begin{aligned} \beta = & \sum_{m_1} \left[ \frac{1}{\delta_{m_1} + H_{m_1, m_1}^a - \hbar\omega} + \frac{1}{\delta_{m_1} + H_{m_1, m_1}^b - \hbar\omega} \right] \frac{a_{m_1, m_1}}{\omega} - \\ & - \sum_i \frac{e_i^2 n_i}{m_i \omega^2} - \sum_{\substack{m_1, m_1' \\ m' \neq m}} \left[ \frac{H_{m_1, m_1'}^a}{(\delta_{m_1} + H_{m_1, m_1}^a - \hbar\omega)(\delta_{m_1'} + H_{m_1', m_1'}^a - \hbar\omega)} + \right. \\ & \left. + \frac{H_{m_1, m_1'}^b}{(\delta_{m_1} + H_{m_1, m_1}^b - \hbar\omega)(\delta_{m_1'} + H_{m_1', m_1'}^b - \hbar\omega)} \right] \frac{a_{m_1, m_1'}}{\omega}. \end{aligned} \quad (28),$$

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Light dispersion in the exciton ...

S/181/62/004/002/033/051  
B102/B138

except that component which is in "resonance" with the light frequency. S. I. Pekar is thanked for advice. Ye. F. Gross and A. A. Kaplyanskiy (FTT, 2, 379, 1960; DAN SSSR 132, 98, 1960) are mentioned. There are 2 tables and 10 references: 8 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: L. R. Bouckeaert et al. Phys. Rev. 50, 58, 1936.

ASSOCIATION: Institut poluprovodnikov AN USSR Kiyev (Institute of Semiconductors AS UkrSSR, Kiyev)

X

SUBMITTED: October 2, 1961

Legend to the tables: (1) Type of band.

Card 647 1.

ACCESSION NR: AP4043365

S/0181/64/006/008/2428/2434

AUTHORS: Piskovoy, V. N.; Tsekava, B. Ye.

TITLE: Nonlinear polarizability of condensed media

SOURCE: Fizika tverdogo tela, v. 6, no. 8, 1964, 2428-2434

TOPIC TAGS: polarization, polarized radiation, tensor analysis,  
quantum equation, Maxwell equation, condensed phase

ABSTRACT: The polarizability of condensed media is investigated on  
the basis of a semiclassical theory, with an aim of describing the  
nonlinear interaction between monochromatic waves. The nonlinear  
polarizability tensors of higher orders are introduced and pertur-  
bation theory is employed for a quantum-mechanical calculation of  
the polarizability current in an approximation that is linear and  
quadratic in the electric field amplitude. Particular attention is  
paid to the introduction of the total field in the Maxwell material

Card 1/2

ACCESSION NR: AP4043365

equations and to the associated separation of the macroscopic polarizability. A connection is established between the micro-polarizability and the macro-polarizability for an infinite homogeneous dielectric. It is pointed out in the conclusions that concrete calculations of the tensors involve particular models of the excited states in the crystal, so that further research in this direction is still necessary. "The authors thank Academician S. I. Pekar and E. I. Rashba for a discussion of the work." Orig. art. has: 26 formulas.

ASSOCIATION: Institut poluprovodnikov AN UkrSSR, Kiev (Institute of Semiconductors, AN UkrSSR)

SUBMITTED: 29Feb64

ENCL: 00

SUB CODE: SS

NR REF SOV: 003

OTHER: 006

Card 2/2

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7

ACCESSION NO.: A95010724

REF ID: A95010724

AUTHOR: Piskovoy, V. N.; Tsekova, R. Ye.

TYPE: *Text*

FORMAT: *Microfilm*

NUMBER OF PAGES: *1*

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7"

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7

RECORDED ON 03/14/2001 BY SP-2000

field theory methods. Only act. 2 figures and 2 formulas

are included.

SP-2000 REC'D. 03/14/2001

\*\*\* 22

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7"

PISKOVAY, V.N. [Piskovyi, V.M.]; TSEKVAVA, B.Ye. [TSekvava, B.IE.]

Construction of a nonlinear polarization operator (case of a longitudinal field). Ukr. fiz. zhur. 10 no.5:512-519 My '65.

(MIRA 18:5)

1. Institut poluprovodnikov AN UkrSSR, Kiiev.

L 22128-66 EWT(1)/T/EWA(h) IJP(c) AT  
ACC NR: AP6004929 SOURCE CODE: UR/0056/66/050/001/0124/0130

AUTHOR: Demidenko, A. A.; Pekar, S. I.; Piskovoy, V. N.; Tsekvava, B. Ye.

72  
13

ORG: Institute of Semiconductors, Academy of Sciences, Ukrainian SSR (Institut poluprovodnikov Akademii nauk Ukrainskoy SSR)

TITLE: Current-voltage characteristic of a semiconductor with an electron-phonon coupling proportional to the applied field

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 1, 1966,

124-130

TOPIC TAGS: volt ampere characteristic, phonon interaction, electron interaction, semiconductor conductivity, dielectric constant, ultrasonic wave, kinetic equation, current carrier, electric field

ABSTRACT: This is a continuation of earlier work by one of the authors (Pekar, ZhETF v. 49, 621, 1965), where an electron-phonon coupling was introduced, arising in an applied electric field as a result of the dependence of the dielectric constant on the deformation of the medium. In the earlier article this interaction was treated in connection with the amplification and generation of ultrasonic waves in a crystal. In the present paper it is treated as a carrier-scattering mechanism, and is used together with the deformation potential and other scattering mechanisms

2

Card 1/2

L 22128-66

ACC NR: AP6004929

to calculate the carrier mobility. This new interaction is also used to solve the kinetic equation. It is shown that the conventional scattering mechanisms predominate in external fields, and give rise to Ohm's law, but in crystals with a very large dielectric constant the electron-phonon coupling becomes predominant and this explains why the current in the semiconductor passes through a maximum with increasing field and then decreases. Numerical calculations are presented for the case when the dielectric constant is of the order of 2500 and 20,000, where the maximum of the field occurs at approximately  $10^5$  v/cm. The limitations inherent in this method are briefly discussed. Orig. art. has: 1 figure and 24 formulas.

SUB CODE: 20/ SUBM DATE: 12Jun65/ ORIG REF: 004/ OTH REF: 002

Card 2/2 BK

L 20761-00 ENCL 1/ENCL 1/ENCL 1  
ACC NR: AP6009858 (N)

SOURCE CODE: UR/0413/66/000/004/0052/0052

INVENTOR: Bulychev, F. V.; Tsentsiper, M. L.; Smirnova, I. V.; Pogrebov, V. M.  
Veyraukh, A. N.

ORG: none 1

TITLE: Free-piston hydraulic compressor. Class 27, No. 178930 35  
13

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 52

TOPIC TAGS: compressor design, hydraulic equipment

ABSTRACT: An Author Certificate has been issued for a free-piston hydraulic air compressor consisting of a housing with a hydraulic-drive cylinder in its center portion, and compressor cylinders, pistons, and a slide-valve arrangement which interacts with a synchronization mechanism, on both sides. To improve equilibrium and reduce the compressor's dimensions, the cylinders' pistons are in the form of two piston groups with an articulated joint between the compressor-cylinder and the hydraulic-drive-cylinder pistons. The slide-type distributing valve of the hydraulic drive can be operated by a cam mounted on the spindle of the synchronization mechanism [WH]

SUB CODE: 13/ SUBM DATE: 23Jul62/ ATD PRESS: 4226

Card 1/1 21

UDC: 621.512.3

L 23061-66 EMT(1)/ETC(f)/EPF(n)-2/EMG(m) MM

ACC NR: AP6002001

SOURCE CODE: UR/0170/65/009/006/0783/0787

AUTHOR: Tsesarskiy, I. B.

ORG: Electrotechnical Institute, Novosibirsk (Elektrotekhnicheskiy institut)

TITLE: Heat transfer from a cylindrical surface with a large number of ribs

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 6, 1965, 783-787

TOPIC TAGS: heat transfer, cylindric flow, heat transfer coefficient, heat transfer liquid

ABSTRACT: The author examines a cylinder (see Fig. 1), along the surface of which heat is liberated with a high intensity. The heat is transferred by a liquid flowing in the recesses on the cylindrical surface in a direction parallel to its axis. A particular case is examined when the recesses and the ribs are small tangentially, and the temperature across the rib is constant. Heat transfer along the ribs by heat conduction is not considered, and, as a result, the solution of the temperature of the rib in the hottest zone is somewhat higher than the actual temperature. The thermal properties (heat capacity, heat conductivity, viscosity) of the liquid are considered constant along the entire flow.

Card 1/4

UDC: 536.244

L 23061-66

ACC NR: AP6002001

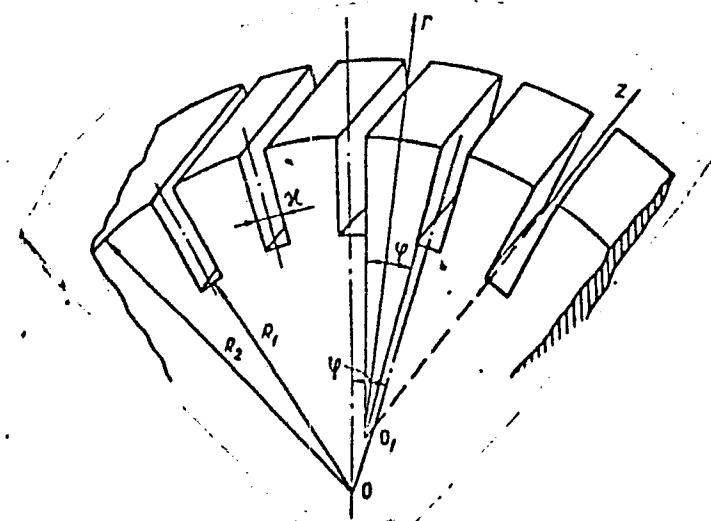


Fig. 1. Sketch of a cylinder with a large number of ribs.

Card 2/4

L 23061-66

ACC NR: AP6002001

The problem is to find the temperature field and the coefficient of heat transfer from the heated surface to the coolant. The heat transfer coefficient (without taking the warm up of the liquid into account) is 4.88 w/cm<sup>2</sup>.0C. Thus, for practical calculations it is necessary in a number of cases to use

$$k_{\text{min}} = (b - a) \left\{ \left( 1 + \frac{\chi}{\varphi a} \right) \left[ \frac{\varphi}{2a} a + \right. \right. \\ \left. \left. + \frac{ab}{\lambda} \left( \frac{1}{2} \frac{a}{b} - \frac{3}{2} + \frac{b}{b-a} \ln \frac{b}{a} \right) \right] \right\}^{-1}. \quad (1)$$

together with

$$k_{\text{max}} = \frac{\sqrt{2\alpha\lambda/\alpha\varphi}}{1 + \chi/\varphi a} \frac{I_1(\varepsilon b^{1/2}) K_1(\varepsilon a^{1/2}) - I_1(\varepsilon a^{1/2}) K_1(\varepsilon b^{1/2})}{I_0(\varepsilon a^{1/2}) K_1(\varepsilon b^{1/2}) + K_0(\varepsilon a^{1/2}) I_1(\varepsilon b^{1/2})}; \\ \varepsilon = \sqrt{\delta a/\lambda\varphi}. \quad (2)$$

Card 3/4

L 23061-66

ACC NR: AP6002001

particularly bearing in mind that eq. (1) better describes the heat transfer at the hottest point of the solid (at the flow outlet). Orig. art. has: 21 formulas and 1 figure.

SUB CODE: 20 / SUM DATE: 11Feb65 / ORIG REF: 002 / OTH REF: 001

Card 4/4 FW

L 22477-66 EWT(l)/ETC(f)/EWG(m)/EWA(h) TT/AT  
ACC NR: AP6009139

SOURCE CODE: UR/0144/65/000/010/1084/1095

AUTHOR: Tsesnak, L.; Palka, R.

11  
B

ORG: none

TITLE: General theory of single-phase inductor generators 25

SOURCE: IVUZ. Elektromekhanika, no. 10, 1965, 1084-1095

TOPIC TAGS: inductor generator, electric machine

ABSTRACT: A system of differential equations with variable coefficients is set up to describe these types of inductor generators: (a) with simple cumulatively connected coil groups, (b) with simple noncumulatively connected coil groups, and (c) with double-pitch coils. Infinite permeance of steel parts and smooth or toothed stator are assumed. Sustained currents are sought by means of a Fourier series with unknown amplitudes and complex phase shifts. The final formulas are applicable to all above cases, the only quantitative difference being that the double-pitch coils have double reactance as compared to the simple coils. The theory reveals the presence of higher harmonic currents in the working winding due to harmonically variable

UDC: 621.313.322

Card 1/2

L 22177-66

ACC NR: AP6009139

permeance between stator and rotor teeth. The amortisseur winding has only even harmonics with the cumulative connection and odd-and-even harmonics with the non-cumulative connection; in the latter case, the first current harmonic is pronounced. The internal machine reactance is inductive but has a capacitive component approximately equal to  $\gamma^2 x_0 / 4$  and depending on higher harmonics. An experimental verification is mentioned. Orig. art. has: 4 figures and 52 formulas.

SUB CODE: 09 / SUBM DATE: 10Mar64 / ORIG REF: 005 / OTH REF: 006

Card 2/2 BK

L 22596-66 EWP(m)/EWP(j)/T/ETC(m)-6  
ACC NR: RT6006255

(A)

IJP(c) W/W/US/PT

SOURCE CODE: UR/0000/65/000/000/0144/0149

AUTHOR: Shchepetkina, N. I.; Tsetsokho, E. I.

ORG: Institute of Chemistry of High Molecular Compounds, AN UkrSSR, Kiev (Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR)

TITLE: Mechanical properties of materials based on polystyrene

SOURCE: AN UkrSSR. Modifikatsiya svoystv polimerov i polimernykh materialov (Modification of the properties of polymers and polymeric materials). Kiev, Naukova dumka, 1965, 144-149

TOPIC TAGS: polystyrene, titanium dioxide, solid mechanical property, polymer, synthetic material, plastic strength

ABSTRACT: The effect of temperature and aging on the mechanical properties of  $\text{TiO}_2$ -filled polystyrene were investigated. The following blends were examined: PT-1-99% styrene + 1%  $\text{TiO}_2$ , PT-5-95% polystyrene + 5%  $\text{TiO}_2$ , and PT-10-90% polystyrene + 10%  $\text{TiO}_2$ . Samples were prepared by thorough mixing of the powders in a ball mill, drying for 5 hours at  $70^\circ\text{C}$ , and pressing into sheets at  $160^\circ\text{C}$  and  $120 \text{ kg/cm}^2$  pressure. The changes in mechanical characteristics as a function of temperature are shown in a table. The aging experiments were conducted at  $150^\circ\text{C}$  and 100% humidity, using a G-4 humidifying chamber with a quartz-mercury lamp. The maximum aging duration was 2000

Card 1/2

L 22596-66

ACC NR: AT6006255

hours. The effect of aging<sup>15</sup> on mechanical characteristics of TiO<sub>2</sub>-polystyrene systems is also presented in tabular form. It was found that the greater the TiO<sub>2</sub> content in polystyrene, the smaller the sensitivity to aging. Orig. art. has: 5 figures, 2 tables.

SUB CODE: 11/

SUBM DATE: 06Oct65/

ORIG REF: 006/

OTH REF: 000

Card 2/2 Hw

L 21934-66 EWA(h)/EWT(1)/EWT(m)/FCC GW  
ACC NR: AP6014486

SOURCE CODE: UR/0089/65/019/005/0470/0472

AUTHOR: Chalov, P. I.; Tsevelev, M. A.

ORG: none

TITLE: Relative levels of fission fragment fallout from the stratosphere

SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 470-472

TOPIC TAGS: stratosphere, radioactive fallout, troposphere, ruthenium, cesium, cerium, beta radiation, gamma radiation, fission product

ABSTRACT: The concentration of radioactive aerosols in the lowest atmospheric layers increases during the spring and summer, then decreases during the fall and winter. These seasonal variations are due to changes in the exchange rate between the air masses of the stratosphere and the troposphere. The relative level of the stratospheric fallout was determined by comparing the fission-product fallout density of the long-lived isotopes during the summer of 1962 when tropospheric fallout still could occur with the 1963 data when the fallout had to be of stratospheric origin only in view of the nuclear test ban. The fallout density was derived from the average beta + gamma activity of the monthly samples. The plot of these data as a function of time revealed that the total activity of  $^{137}\text{Cs}$ ,  $^{144}\text{Ce}$ , and  $^{106}\text{Ru}$  in the fallout during 1962 and 1963 exhibited variations usually observed only in the air layer directly above the ground. The 1962 maximum had to be attributed to an overlap of the stratospheric and tropospheric fallout. The 1963 maximum was due primarily

UDC: 551.577.7

Card 1/2

L 21934-66

ACC NR: AP6014486

to fission products from the stratosphere; it exceeded that 1962 maximum by a factor about 3. This was caused by the introduction of new fission products into the atmosphere during the 1962 tests, which reached the troposphere during the spring and summer of 1963. The cumulative fallout density and the related gamma dose during the nuclear test ban period is thus due mostly to the stratospheric fallout. Orig. art. has: 2 figures. [NA]

SUB CODE: 18, 04 / SUBM DATE: 13Feb65 / ORIG REF: 006

Card 2/2 nst

L 21016-66 ENT(1) SCTB DD  
ACCESSION NR: AP5019521

UR/0244/65/024/004/0035/0040  
612.015.642-06:612.015.643]-  
06:612.591

8

73

AUTHOR: Tseytina, A. Ya. (Moscow)

TITLE: Effect of vitamin P on the ascorbic acid metabolism of rats during long term exposure to high temperatures

SOURCE: Voprosy pitaniya, v. 24, no. 4, 1965, 35-40

TOPIC TAGS: vitamin, experiment animal, animal physiology, tissue physiology, heat biologic effect, biologic secretion

ABSTRACT: The experiment was conducted on 198 white rats maintained on a casein diet with the usual additions of vitamins. Some of the animals were subjected to tests for determining the effect of bioflavonoids and received an additional daily ration of 5 mg vitamin P (tea catechins). After 3-4 weeks they were placed in rooms with a 35 C temperature and 30% humidity and were kept there 5 hours daily for 1-30 days. Urine was collected after 5 hours. After the end of the test, the animals were sacrificed and the contents of ascorbic (AA), dehydro-

L 21016-66

ACCESSION NR: AP5019521

2

ascorbic (DAA) and diketogulonic acid (DKA) was determined in adrenals, liver, serum and urine. Regular exposure to high temperature over a period of 30 days for 5 hours daily caused a decrease in AA content in adrenals and blood serum and, towards the end of the experiment, increased AA elimination in the urine. Concentration of DAA and DKA was observed to increase simultaneously in adrenals and urine. In the animals which had received the tea catechins, the onset of these phenomena was delayed and additional increase of AA elimination in the urine was observed. The levels of these 3 acids in liver and blood serum varied insignificantly during heat exposure and seemed unrelated to the presence of vitamin P in the diet. "The work was conducted under the supervision of Professor N. S. Yarusova." Orig. art. has: 3 tables

ASSOCIATION: Laboratoriya fiziologii i patofiziologii vitaminov Nauchno-issledovatel'skogo instituta vitaminologii Ministerstva zdravookhraneniya SSSR, Moskva (Laboratory of Vitamin Physiology and Physiopathology of the Scientific Research Institute of Vitaminology, Health Ministry of the SSSR, Moscow)

SUBMITTED: 27Aug64

ENCL: 00

SUB CODE: LS

NR REF SOV: 005

OTHER: 004

Card 212 BK

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7"

TSEL', V.F.

Plastic surgery of skin defects of the foot. Vest.khir.Grekova 70  
no.6:45-49 1950. (CLML 20:5)

1. Of the Hospital Surgical Clinic (Head--G.M.Davydov), Arkhangel'sk State Medical Institute, Arkhangel'sk.

TSEL', V.F., dotsent.

Two-stage free transplantation of the skin in ulcers and non-healing wounds. Khirurgija, no.4:68-69 Ap '55. (MLRA 8:9)

1. Gospital'naya khirurgicheskaya klinika (zav.-prof. G.M. Davydov) Arkhangel'skogo meditsinskogo instituta.

(SKIN TRANSPLANTATION,

two-stage free transpl. in ulcer & non-healing wds)

(ULCERS, surgery,

skin transpl., two-stage free transpl.)

(WOUNDS AND INJURIES, surgery,

skin transpl., two-stage free transpl. in non-healing wounds)

TSEL', V.F., dotsent.

Morphological modifications in the sebaceous glands of a free  
skin graft. Arkh.anat.gist. i embr. 32 no.1:45-53 Ja-Mr '55.  
(MLRA 8:9)

1. Iz gospital'noy khirurgicheskoy kliniki (zav.prof. G.M.  
Davydov) Arkhangel'skogo meditsinskogo instituta.  
(SEBACEOUS GLANDS, anatomy and histology.  
histol.changes in free skin grafts)  
(SKIN TRANSPLANTATION,  
sebaceous glands histol.changes in free skin  
grafts)

USSR/General Biology - Transplantation and Anastomosis.

B-5

Abs Jour : Ref Zhur - Biol., No 15, 1958, 66746

Author : Tsel', V.F.

Inst : Arkhang, med. in-.

Title : The Vascularization of A Free Skin Transplantate.

Orig Pub : Sb. tr. Arkhang. med. in-ta, 1956, vyp., 13, 108-112.

Abstract : By means of histological methods, 71 slices of autotransplanted human skin were studied within time intervals from 22 hours to 4 years, and 27 slices of rabbit skin from 24 hours to  $4\frac{1}{2}$  months after the transplantation was accomplished. The study on rabbit skin was made by means of red and black India ink introduced into the blood vessels through an aorta. In a case of a clinically clean graft of a transplanted skin, the blood circulation was restored due to anastomosis between the retained T

Card 1/2

TSNL<sup>1</sup>, V.E.

Regeneration of adipose tissue under a free skin graft. Khirurgija  
(MIRA 11:4)  
Supplement:59 '57.

1. Iz gospital'noy khirurgicheskoy kliniki Arkhangel'skogo  
gosudarstvennogo meditsinskogo instituta.  
(ADIPOSE TISSUES) (SKIN GRAFTING)

TSEL', V.F. doktor meditsinskikh nauk (Arkhangel'sk, pr. P. Vinogradova  
d.64, kv.3)

Planning the size and form of sieve grafts in free skin trans-  
plantation, Vest.khir., 78 no.3:102-103 Mr '57. (MLRA 10:6)

1. Iz gospital'noy khirurgicheskoy kliniki' (zav. - prof. G.M.  
Davydov) Arkhangel'skogo meditsinskogo instituta.  
(SKIN TRANSPLANTATION  
free skin grafts, determ. of size & form of graft (Rus))

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7

TSEL', V.E., prof. (Arkhangel'sk, prospekt P. Vinogradova, d. 64, kv. 3)

Our technic for suturing the abdominal wall in diastasis recti abdominis. Nov. khir. arkh. 5:135-136 S-0 '58. (MIRA 12:1)

1. Gospital'naya khirurgicheskaya klinika (zav. - prof. G. M. Davydov)  
Arkhangel'skogo meditsinskogo instituta.  
(ABDOMEN--SURGERY)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7"

TSEL', V.F., prof.; ANTONOVA, N.S.

Plastic surgery with pedicle flap in ulcers of the leg and foot.  
Ortop.travm. i protez. 20 no.2:19-21 F '59. (MIRA 12:12)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. G.M. Davydov)  
Arkhangel'skogo meditsinskogo instituta.

(FOOT, ulcers  
skin transpl. with pedicle flap (Rus))

(LEG, ulcers  
same)

(SKIN TRANSPLANTATION, in various dis.  
pedicle flap in foot & leg ulcers (Rus))

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7

TSAL', V.F. (Arkhangel'sk)

Technic for experimental skin transplantation in animals.  
Eksper.khir. 4 no.4:53-54 Jl-Ag '59. (MIRA 12:11)  
(SKIN TRANSPLANTATION exper.)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7"

TSEL', V.F.

Coalescence of free skin grafts under experimental and clinical conditions. Biul. eksp. biol. med. 47 no.2:121-124 P '59. (MIRA 12:4)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. G.M. Davydov)  
Arkhangel'skogo meditsinskogo instituta. Predstavlena deystvitel'nym  
chlenom AMN SSSR V.V. Parinym.  
(SKIN TRANSPLANTATION,  
coalescence, clin. & exper. aspects (Rus))

KHOLDIN, S.A., prof.; TSEL', Ye.A., kand.med.nauk

Brief news. Vop. onk. 1C no.10:113-115 '64.

(MFA 12:2)

1. Chlen-korrespondent AMN SSOR (for Kholdin).

ABRAKOV, L.V.; BARANOVA, A.G.; DYMARSKIY, L.Yu.; DYAD'KOVA, A.M.;  
RABKOVA, L.M.; RAKOV, A.I.; SEREBROV, A.I.; SMIRNOVA, I.N.;  
KHOLDIN, S.A.; TSEL', Ye.A.; CHEKHKARINA, Ye.A.; SHABASHOVA,  
N.Ya.; SHANIN, A.P.

Reviews. Vop. onk. 11 no.7:116-126 '65.

(MIRA 18:9)

AL'BENSKIY, A.V.

TSEL' Ye. A.

Terminal subtotal resection of the stomach in cancer. Vop. onk. 8  
no. 3:61-67 '62. (MIRA 15:4)

1. Iz II khirurgicheskogo otdeleniya (zav. - chl. korr. AMN SSSR,  
prof. A. I. Rakoz) Instituta onkologii AMN SSSR (dir. - deystv.  
chl. AMN SSSR, prof. A. I. Serebrov)

(STOMACH--CANCER) (STOMACH--SURGERY)

TSEL<sup>t</sup>, Ye.A.

Total gastrectomy in cancer of the stomach. Vop.onk. 7 no.5:21-  
(MIRA 15:1)  
29 '61.

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - chl.-korrr. AMN  
SSSR prof. A.I. Rakov) Instituta onkologii AMN SSSR (dir. -  
deystv. chl. AMN SSSR prof. A.I. Serebrov).  
(STOMACH--CANCER) (STOMACH—SURGERY)

TSEL' Ye.A. (Leningrad, ul. Marata, d.12, kv.35)

Determination of certain end products of nitrogen metabolism in the urine following gastrectomy for cancer. Vop.onk. 1 no.5:71-77 '55.  
(MLRA 10:1)

1. Iz 2 khir. otd. (zav. - prof. A.I.Rakov) i biokhimicheskoy laboratorii (zav. - prof. A.N.Parshin) Instituta onkologii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. A.I.Serebrov)

(STOMACH, neoplasms,  
gastrectomy, postop. urinary nitrogen metab. prod.)

(URINE,  
nitrogen metab. prod. after gastrectomy for stomach  
cancer)

(NITROGEN, metabolism,  
terminal prod. in urine, after gastrectomy for cancer)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7

TSEL', Ye.A.; ZALESSKAYA, L.I.

Minutes of meetings Nos.33 and 34 of the Leningrad and Leningrad  
Province Oncological Society, November 13 and December 11, 1958.  
Vop.ouk. 5 no.6:759-763 '59. (MIRA 12:12)  
(TUMORS)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7"

TSEL', Ye.A. (Leningrad, ul.Marata, d.12, kv.35.)

Metastases of rectal cancer into the liver. Vest.khir. 82  
no.4:61-66 Ap '59. (MIRA 12:6)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - prof.A.I.Rakov)  
Instituta onkologii AMN SSSR.  
(RECTUM--CANCER) (LIVER--CANCER)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7

KHOLDIN, S. A.; TSEL', Ye. A.

Minutes of the 49th meeting of the Oncological Society of Lenin-  
grad and Leningrad Province. Vop. onk. 6 no.12:90-93 '60.  
(MIRA 15:7)

(LENINGRAD PROVINCE—ONCOLOGICAL SOCIETIES)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7"

TATARSKIY, V.V.; TSEL', Ye. A.; BOGNIBOV, Ye.A. )

Amino and total urinary nitrogen following gastrectomy for cancer. Vop.  
onk. 4 no.5:563-569 '58. )  
} (MIRA 12:1)

l. Iz II khir. otd. (zav. - prof. A.I. Rakov) i klinich. laboratorii  
(zav. - st. nauchn. sotr. G.G. Ivanov) Instituta onkologii AMN SSSR  
(dir. - deystv. chl. AMN prof. A.I. Serebrov). Adres avtorov: Leningrad,  
P-129, 2-ya Berezovaya alleya d.3, Institut onkologii AMN SSSR.

(GASTRECTOMY, in var. dis.  
cancer, postop. urinary nitrogen (Rus))  
(NITROGEN, in urine,  
postgastrectomy, in cancer (Rus))

TSEL', Ye.A.

Clinicomorphological evaluation of the degree of radical ex-tiration of the stomach in cancer. Trudy Inst. onk. AMN SSSR no.3:61-67 '60 (MIRA 16:12)

1. Iz II khirurgicheskogo otdeleniya (zav. - prof. A.I.Rakov) Instituta onkologii AMN SSSR.

NECHAYEVA, I.D.; CHAKLIN, A.V.; TSEL' Y.A.

"Principles in cancer prevention" by I.T.Shevchenko. Reviewed by  
I.D.Nechaeva, A.V.Chaklin, E.A.Tsel'. Vop.onk. 3 no.6:762-765 '57.  
(MIRA 11:2)

1. Adres avtorov: Leningrad, 129, Kamennyy ostrov, 2-ya Berezovaya  
alleya, e. Institut onkologii AMN SSSR.  
(CANCER) (SHENVCHENKO, I.T.)

TSEL', Ye.A.

CHISTOVA, N.M.; TSEL', Ye.A.

Minutes of sessions No.14 and 15 of the Society of oncologists  
of Leningrad and Leningrad Province. Vop.onk.3 no.3:372-384 '57.  
(ONCOLOGY) (MLRA 10:8)

TSEL', Ye.A.

Primary multiple cancer of the large intestine. Vop.onk.l no.1:  
96-100 '55. (MLRA 8:10)

1. Iz 2-go khirurgicheskogo otdeleniya (zaveduyushchiy--prof.  
A.I.Rakov) Instituta onkologii AMN SSSR (direktor-Chlen-korres-  
pondent AMN SSSR prof. A.I. Serebrov) Leningrad, ul. Marata,  
12 kv. 35.

(INTESTINE, LARGE, neoplasms,  
multiple primary)

TSEL', Ye.A.

Surgical technics in remote metastatic hypernephromas. Sov.med.  
25 no.4:86-93 Ap '61. (MIRA 14:6)

1. Iz vtorogo khirurgicheskogo otdeleniya (zav. - chlen-korrespondent  
AMN SSSR prof. A.I.Rakov) Instituta onkologii (dir. - deystvitel'nyy  
chlen SSSR prof. A.I.Serebrov) AMN SSSR, Leningrad.  
(CANCER) (SURGERY)

TSEL' Ye.A. (Leningrad, ul. Marata, d.12, kv.35)

Determination of certain end products of nitrogen metabolism in the urine following gastrectomy for cancer. Vop.onk. 1 no.5:71-77 '55.  
(MLRA 10:1)

1. Iz 2 khir. otd. (zav. - prof. A.I.Rakov) i biokhimicheskoy laboratorii (zav. - prof. A.N.Parshin) Instituta onkologii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. A.I.Serebrov)

(STOMACH, neoplasms,  
gastrectomy, postop. urinary nitrogen metab. prod.)

(URINE,  
nitrogen metab. prod. after gastrectomy for stomach cancer)

(NITROGEN, metabolism,  
terminal prod. in urine, after gastrectomy for cancer)

NECHAYEVA, I.D.; DYAD'KOVA, A.M.; GORYUKHINA, T.A.; TSEL'YEVA, Ye.A. (Adres  
avtorov: Leningrad, 129, 2-ya Berezovaya alleya, dom, 3. Institut  
Onkologii Akademii meditsinskikh nauk SSSR.

Tenth session of the Academy of Medical Sciences of the U.S.S.R.  
Vop.onk. 2 no.4:493-502 '56. (MLB 9:12)

1. Institut Onkologii Akademii meditsinskikh nauk SSSR.  
(CANCER)

TSEL', Ye.A.; SIDORENKO, L.N.

Late results of surgical treatment of gastric cancer and their  
relation to the localization of the tumor and the size of inter-  
vention. Vop onk. 10 no.8:7-12 '64. (MIRA 18:3)

1. Iz II khirurgicheskogo otdeleniya (zav. - chlen-korrespondent  
AMN SSSR prof. A.I.Rakov) Instututa onkologii AMN SSSR (dir. -  
deystvitel'nyy chlen AMN SSSR prof. A.I.Serebrov). Adres avtorov:  
Leningrad, st. Pesochnaya, 2, ul. Leningradskaya, d.68, Institut  
onkologii AMN SSSR.

Tselakovskiy, V. A., 1952.

Iatsiora, I. F.

Good book on the electrification of lumbering operations ("Electrification of lumbering operations." I.F. Iatsiora, A. B. Ginsburg. Reviewed by Eng. V. A. Tselebrovskiy), Les, prom., 12, No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

TSELEBROVSKIY, V. A.

"Mechanization and Automation of Production Processes at the Raw Material Exchange Center of the Omutninsk House Construction Combine."

report presented at the Scientific-Technical Conference on Questions Regarding the Mechanization of the Lumber Industry, by the Moscow Inst. of Forest Engineering, Moscow, May 1959.

TSELEBROVSKIY, V. A. Eng.

Lumbering

Good book on the electrification of lumbering operations ("Electrification of lumbering operations." I.I. Patsiora, Z. B. Ginzburg. Reviewed by Eng. V.A. Tselebrovskiy). Les. prom. 12 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

TSELEBROVSKIY, V. A., Eng.

Patsiora, P. P.

Good book on the electrification of lumbering operations ("Electrification of lumbering operations." P. P. Patsiora, Z. B. Ginzburg. Review by Eng. V. A. Tselebrovskiy), Les, prom., 12, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1953. Unclassified.

TSELEBROVSKIY, V. A. Eng.

Lumbering

Good book on the electrification of lumbering operations ("Electrification of lumbering operations." P. P. Patsiora, Z. B. Ginzburg. Reviewed by Eng. V. A. Tselebrovskiy). Les. from. 12 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1953. Unclassified.

AUTHOR:

Tselebrovskiy V.Ye. and Moyseyevich S.I. (Engineer)

SOV/133-58-12-18/19

TITLE:

Calculation of the Net Cost of Steam Produced in Waste  
Heat Boilers (O kal'kulirovaniis sebestoimosti para  
utilizatsionnoy ustanovki)

PERIODICAL: Stal', 1958, Nr 12, pp 1138-1141 (USSR)

ABSTRACT: These are remarks on the previously published paper by I.P. Krapchin (Stal', 1958, Nr 3) in which it was proposed to transfer the equivalent cost of fuel corresponding to the amount of produced steam from the basic product (e.g. steel) to the cost of steam. The present authors in two separate contributions disagree with the original authors. It is considered that the cost of such steam should include only the actual expenses involved (without fuel) and that the selling price should be as for steam from power stations of equivalent parameters.

Card 1/2

SOV/133-58-12-18/19  
Calculation of the Net Cost of Steam Produced in Waste Heat  
Boilers

In this way the difference between costs of production and selling price will present a measure of economic efficiency of the utilisation of waste heat.

Card 2/2

SOV/137-58-8-16512

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 40 (USSR)

AUTHOR: Tselchrovskiy, V.Ye.

TITLE: Production and Cost of Installations for Recovery of Energy  
Released in Open-hearth Shops (O sebestoimosti i produktsii  
energeticheskikh utilizatsionnykh ustavov martenovskikh  
tsekhov)

PERIODICAL: Izv. Tomskogo politekhn. in-ta, 1957, Vol 89, pp 112-115

ABSTRACT: In order to evaluate the practicability of the employment of energy-recovering devices (ERD) in the open-hearth industry, the author proposes that both the open-hearth furnace and the ERD be regarded as a single energy-and-wares producing unit capable of two types of output, namely, energy and useful products. In examining the thermal balance of such a unit, the thermal losses are divided between the open-hearth furnace and the ERD, and the magnitude of the fuel component,  $S_f$ , of the total cost of generation of energy by means of ERD is established.  $S_f = K(Q_e^f + Q_e^d)/Q_{rd}$ , where K is the cost of one megacalorie of heat in primary sources of energy of the open-hearth furnace;  $Q_e^f$ , the portion of chemical heat content of fuel in the

Card 1/2

SOV/137-58-8-16512

Production and Cost of Installations for Recovery of Energy (cont.)

power installation:  $Q_c^d$ , the portion of thermal energy from other possible sources;  $Q_{rd}$ , the quantity of heat energy obtained from the ERD. In addition to the  $S_f$ , the cost of production of power installations includes the following components: The amortization,  $S_{am}$ ; wages,  $S_w$ ; auxiliary materials and water,  $S_{aw}$ ; overhead expenses,  $S_o$ , and miscellaneous expenses,  $S_m$ . The overhead expenses are distributed between the ware production and energy output in proportion to the direct costs.

M.P.

1. Open hearth furnaces--Equipment
2. Open hearth furnaces--Performance
3. Open hearth furnaces--Thermodynamic properties
4. Industrial equipment  
--Economic aspects

Card 2/2

TSELEHROVSKIY, V.Ye., dotsent, kand.tekhn.nauk

Power engineering efficiency of using heat pumps in heat regeneration systems. Stal' 22 no.3:283-285 Mr '62.

1. Tomskiy politekhnicheskiy institut.  
(Heat pumps) (Waste heat)

(MIRA 15:3)

TSELEBROVSKIY, V.Ye.

Determining the power effect of the converting unit in a technological power system. Izv. Sib. otd. AN SSSR no.6:87-96 '58. (MIRA 11:9)

1.Tomskiy politekhnicheskiy filial.  
(Power engineering)

TSVILIBROVSKIY, V.Ye.

Selecting power installations operating on secondary power resources produced by open-hearth plants combined in systems with heat and electric power plants. Izv. TPI 89:91-103 '57. (MIRA 10:12)  
(Power engineering)

TSHEMBROVSKIY, V.Ye.

Cost of power production by power installations combined in systems  
with open-hearth plants. Izv. TPI 89:112-115 '57. (MIRA 10:12)  
(Power engineering)

BORISOV, B.G., kand.tekn.nauk; POTOSKUYEV, M.N., kand.tekn.nauk; ROMANOVA,  
T.M., kand.tekn.nauk; TROSHIN, P.V., kand.tekn.nauk. TSOL' SAKOVSKIY,  
V.Ye., kand.tekn.nauk; DANICHOK, Ye.A., kand.tekn.nauk; KARYAGIN,  
N.P., kand.tekn. nauk; FATEYEV, V.P. (Iosikar-Ola)

Training of engineers for work in industrial heat and electric power sys-  
tems. Prom.energ. 18 no.8:35-41 Ag '63. (MIRA 16:9)

1. Ivanovskiy energeticheskiy institut imeni V.I.Lenina. (for Borisov,  
Potoskuyev, Romanova, Troshin). 2. Tomskiy politekhnicheskiy institut  
(for TSelebrovskiy). 3. Dnepropetrovskiy metallurgicheskiy in-  
stitut (for Danichek). 4. Gor'kovskiy nizhnevolzhsko-stroitel'nyy institut  
(for Karyagin).

(Power engineering—Education and training)

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CIA-RDP86-00513R001756930003-7

TSELM BROVSKIY, V.Ye.

Determining the maximum fuel economy in case of the utilization  
of secondary power resources. Izv. TPI 89:104-111 '57. (MIRA 10:12)  
(Power engineering)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7"

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7

To: Mr. [redacted] [redacted] [redacted]

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7"

TSELEBROVSKIY, Yu.V.

Shortcomings of the zutomatic reclosing circuit of the feeders of  
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(MIRA 16:9)

1. Starshiy elektromekhanik remontno-revizionnogo tsekha Novosibirs-  
kogo uchastka energosnabzheniya.

(Electric railroads—Substations)

TSELEBROVSKIY, Yu.V.

We have corrected the shortcomings of the automatic reserve cutting-in network. Avtom., telem. i sviaz' 7 no.5:35 My '63.  
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Novosibirskogo uchastka energosnabzheniya.  
(MIRA 16:7)  
(Railroads—Signaling—Centralized traffic control)

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CIA-RDP86-00513R001756930003-7"

TSELETSKIY, Mechislav [Czelecki, Mieczyslaw]

Current problems in the finances of the Polish People's Republic.  
Fin. SSSR 22 no.10:87-92 O '1.  
(MIRA 14:9)

1. Chlen redaktsionnoy kollegii zhurnala "Finansy", g.Varshava.  
(Poland--Finance)

NOGALLER, A.M.; PLAKSIN, V.A.; TSESEL'SKIY, D.S.; LIBIN, A.L.; MEZENIN, N.N.;  
CHIGRINTSEVA, M.F.; DEM'YANOVSKAYA, Z.N.

Using low-calory diets in the compound treatment of hypertension at  
the Kislovodsk health resort. Vop.pit. 16 no.1:76-78 Ja-F '57.

(MLRA 10:3)

1. Iz Bal'neologicheskogo instituta na Kavkazskikh mineral'nykh  
vodakh i sanatoriyev imeni Lenina, imeni X let Oktyabrya, "Skala",  
"Gornyak" No.3 i No.19 Kislovodskogo kurorta.  
(HYPERTENSION) (KISLOVODSK--DIET IN DISEASE)  
(DIET IN DISEASE)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930003-7

TSELEVICH, V.P.

Variations in the brightness of the rocket carrier. Biul.sta.opt.  
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LAKOSINA, N.D.; TSELIBEYEV, B.A.

Catamneses of patients with neuroses of obsessive states and psychasthenia. Zhur.nevr.i psikh. 61 no.10:1534-1537 '61.  
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1. Kafedra psikiatrii (zav. - prof. Ye.A.Popov [deceased])  
I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

(NEUROSES) (SCHIZOPHRENIA) (OBSESSIONS)

TSELIBEYEV, B.A., kand.med.nauk

Acute toxic psychoses developing during streptomycin therapy.  
Probl. tub. 41 no.11:88-89 '63. (MIRA 17:9)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta  
sudebnoy psichiatrii imeni prof. V.P. Serbskogo (dir. - dotsent G.V.  
Morozov).

TSELIBEYEV, B.A.; YASHISH, I.L.; OKUNEV, V.N.

Mental disorders in hematologic diseases. Zhur. nevr. i psikh.  
64 no.8:1192-1197 '64. (MIRA 17:12)

1. Moskovskaya gorodskaya klinicheskaya ordena Lenina bol'niitsa  
im. Botkina (glavnnyy vrach - dotsent Yu.G. Antonov), Moskva.

TSELIBEYEV, B.A., kand.meditinskikh nauk; NOVITSKIY, V.B.

Electroconvulsive therapy and aminazine in the treatment of schizophrenia.  
Vrach. delo no.9:114-116 S '60. (MIRA 13:9)

1. Gruppa AMN SSSR, prikreplannaya k deystv. chlenu AMN SSSR, prof.  
Ye.A. Popvu i Moskovskaya oblastnaya psichoneurologicheskaya bol'nitsa  
No 3.  
(SHOCK THERAPY) (CHLORPROMAZINE)  
(SCHIZOPHRENIA)

SHABANOV, A.N., prof.; TSELIBEYEV, B.Ar, kand.med.nauk; SHARINOVA, S.A.

Psychic disorders in connection with operative surgery. Sov.med.  
23 no.1:64-69 Ja '59. (MIRA 12:2)

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imeni S.P. Botkina (glavnnyy vrach - prof. A.N. Shabanov).  
(SURGERY, OPERATIVE, COMPL.  
postop. psychoses (Rus))  
(PSYCHOSES, etiol. & pathogen.  
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**TSULIBEYEV, B.A.**

Modification of the conditioned reflex therapy of alcoholism with  
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1. Nevropsikiatricheskiy dispensar Zhdanovskogo rayona g. Moskvy.  
(APOMORPHINE) (ALCOHOLISM--TREATMENT)  
(HYPNOTISM--THERAPEUTIC USE)

TSELIBEYEV, B.A.

Rare case of a disorder of desires. Prak.sudebnospikh.ekspert.  
no.4:38-42 '61. (MTRA 16:2)  
(PSYCHOLOGY, PATHOLOGICAL) (EMOTIONS)

AMERUMOVA, A.G.; TSELIBEYEV, B.A.

Use of meprotan (andaxin) in a psychiatric clinic. Trudy Gos.  
nauch.-issl.inst.psikh. 35:259-265 '62. (MIRA 16:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut psichia-  
trii Ministerstva zdravookhraneniya RSFSR (dir. - prof. D.D.  
Fedotov i Institut psichiatrii AMN SSSR (dir. -- dotsent N.M.  
Zharikov).  
(MEPROBAMATE)

TSELIBEYEV, B.A.

Postoperative psychoses. Zhur. nevr. i psikh. 65 no.9:1393-1403  
(MIRA 16:9)  
'65.

I. TSentral'nyy nauchno-issledovatel'skiy institut sudebnoy psi-  
khiatrii im. V.P. Serbskogo (direktor - dotsent G.V. Morozov) i  
Klinicheskaya ordena Lenina bol'nitsa im. S.P. Botkina (glavnyy  
vrach M.P. Krivorot'ko), Moskva.

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AUTHOR: Tselibeyev, B. A.; Yashish, I. L.; Brusilovskaya, N. I.; Fatkullina, Z. I.;  
Okunev, V. N.

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ORG: Central Scientific Institute of Forensic Psychiatry im. Serbskiy /headed by Docent G. B. Morozov/ (Tsentral'nyy nauchno-issledovatel'skiy institut sudebnoy psichiatrii); Clinical Order of Lenin Hospital im. S. P. Botkin /headed by Docent Yu. G. Antonov/, Moscow (Klinicheskaya ordena Lenina bol'nitsa)

TITLE: Psychic disturbances in burns ✓

SOURCE: Sovetskaya meditsina, no. 3, 1966, 79-83

TOPIC TAGS: injury, psychoneurotic disorder, psychiatry

ABSTRACT: The authors observed four cases of psychoses associated with burns. In three patients, soon after the burns, brief amental-depressive states developed, and in one -- a severe psychic state was observed followed by a depressive-paranoid syndrome. It was found that in all three patients of the first group, 3 days after receiving the burns, when shock symptoms had passed, but intoxication, development of suppurative pus, and insomnia due to pain continued, states of psychomotor excitation developed with disorientation in space and time, and with large numbers of visual and auditory hallucinations and periodic confusion of mental processes. Psychic disturbances were noted

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094 1564

Card 1/2

USSR/Human and Animal Physiology - The Nervous System.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 13289

Author : Tselibeyev, B.A.

Inst :

Title : Neuro-Psychic Disturbances as a Result of Air Embolus  
of the Brain Vessels in Criminal Abortions.

Orig Pub : Sudebno-med. ekspertiza, 1958, 1, No 2, 44-46

Abstract : No abstract.

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TSELIBEYEV, B.A., kand.med.nauk

Treatment of psychical diseases by using iprazid. Zdrav. Turk.  
5 no. 1:20-24 S-0 '61. (MLA 14:12)  
(ISONICOTINIC ACID—THERAPEUTIC USE)  
(MENTAL ILLNESS)